



Policy code	DTP_META_0722		
Date	July, 2022		
Purpose	To ensure a consistent procedural approach to metaraminol administration.		
Scope	Applies to all Queensland Ambulance Service (QAS) clinical staff.		
Health care setting	Pre-hospital assessment and treatment.		
Population	Applies to all ages unless specifically mentioned.		
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Author	Clinical Quality & Patient Safety Unit, QAS		
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Drug class

Sympathomimetic amine^[1]

Pharmacology

Metaraminol causes release of accumulated noradrenaline from nerve endings which then acts to increase systolic and diastolic blood pressure by directly and indirectly stimulating the alpha receptors in the sympathetic nervous system. This alpha stimulation causes vasoconstriction of the blood vessels. It also has a positive inotropic effect on the heart.^[1,2]

Metabolism

Hepatic.[1]

Indications [1,2]

- **Hypotension** (without hypovolaemia)
- Prevention and treatment of the acute hypotensive state occurring with anaesthesia

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Contraindications

- Allergy AND/OR Adverse Drug Reaction
- Current MAOI therapy
- Pregnancy
- Hypovolaemia secondary to ongoing haemorrhage

Precautions

- Ischaemic heart disease
- Thyroid disease
- Hypertension
- Diabetes



Side effects [1,2]

- Tissue necrosis if extravasation occurs
- Reduced blood flow to 'non vital' (skin and gut) organs

Presentation

• Ampoule, 3 mg/6 mL metaraminol

Onset (IV)	Duration (IV)	Half-life
1–2 minutes	up to 20 minutes	Minutes

Schedule

• S4 (Restricted drugs).

Routes of administration

Intravenous injection (IV)



Intraosseous injection (IO)



Special notes

- Ambulance officers must only administer medications for the listed indications and dosing range. Any consideration for treatment outside the listed scope of practice requires mandatory approval via the QAS Clinical Consultation and Advice Line.
- Rapid excessive hypertension may precipitate APO, cardiac arrhythmias, cerebral haemorrhage or cardiac arrest.
- All cannulae/EZ-IO® and IV lines must be flushed thoroughly with sodium chloride 0.9% following each medication administration.

Adult dosages [1,2]

- Hypotension (without hypovolaemia)
- Prevention and treatment of the acute hypotensive state occurring with anaesthesia



IV/IO

0.5 mg

Repeated at 1 minute intervals.

No maximum dose.

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Paediatric dosages

Note: QAS officers are **NOT** authorised to administer metaraminol to paediatric patients.